

## METHOD FOR FACILITATING MICROCONTROLLER PROGRAMMING

## ABSTRACT

A method to facilitate circuit design. First, a schematic and data sheet for a selected module may be displayed. Next, in response to a request for a position for the module among available resources (e.g., PSoC blocks), a potential position for the module is computed. The position is displayed on a graphical user interface by mapping the module to one or more PSoC blocks. Additional user modules may then be selected and placed. After allowing the user to configure the circuit by selecting circuit parameters and pin-outs, various items are automatically generated to facilitate programming the target device. For example, application programming interfaces (APIs) for programming an operation of the modules, source code for realizing the modules in the resources, an interrupt vector table, and a data sheet for the circuit may be automatically generated.